

Title (en)
Ceramic turbo charger rotor.

Title (de)
Keramikrotor für Turbolader.

Title (fr)
Rotor céramique pour turbocompresseur à suralimentation.

Publication
EP 0402095 B1 19940216 (EN)

Application
EP 90306095 A 19900605

Priority
• JP 5502790 A 19900308
• JP 14216889 A 19890606

Abstract (en)
[origin: EP0402095A2] A ceramic turbo charger rotor (11) having a bearing structure in which an inner lathe or sleeve (14) of an annular ball bearing race and a spacer (15) are assembled to a journal shaft (13a) as one unit in such manner that one end of the spacer (15) is assembled to a turbine-side connecting portion (13b) of the journal shaft (13a) in a pressure inserting manner and the other end of the spacer (15) is assembled to a compressor-side connecting portion (13c) of the journal shaft (13a) in a clearance fitting manner. Therefore, the deviation between a center axis and a rotational axis of the rotor (11) caused by the pressure insertion of the spacer (15) is released at the compressor side and the amount of the unbalance before correcting of the rotor (11) is remarkably reduced.

IPC 1-7
F04D 29/04; **F04D 25/04**; **F02C 7/06**

IPC 8 full level
F01D 5/04 (2006.01); **F01D 5/02** (2006.01); **F02B 39/00** (2006.01); **F04D 29/28** (2006.01)

CPC (source: EP US)
F01D 5/025 (2013.01 - EP US); **F04D 29/284** (2013.01 - EP US)

Cited by
FR2844877A1; US6296441B1; WO9728372A1

Designated contracting state (EPC)
DE FR GB

DOCDB simple family (publication)
EP 0402095 A2 19901212; **EP 0402095 A3 19910327**; **EP 0402095 B1 19940216**; DE 69006641 D1 19940324; DE 69006641 T2 19940707; JP 2749691 B2 19980513; JP H0388920 A 19910415; US 5169297 A 19921208

DOCDB simple family (application)
EP 90306095 A 19900605; DE 69006641 T 19900605; JP 5502790 A 19900308; US 53339190 A 19900605